

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|---|--|--|
| Applicant's or agent's file reference 159282.3 IL | FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below. | |
| International application No PCT/IL2005/000351 | International filing date (day/month/year) 28/03/2005 | (Earliest) Priority Date (day/month/year) 28/03/2004 |
| Applicant ISRAEL AIRCRAFT INDUSTRIES LTD. | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23 1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II)

3. ☒ **Unity of invention is lacking** (see Box III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38 2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1a, 1b

☒ as suggested by the applicant

☐ as selected by this Authority because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-20, 34-48

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-20, 34-48

arresting device with tire attaching member

2. claims: 21-33

arresting device with freely rotating cylinder

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E01F13/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document with indication where appropriate, of the relevant passages | Relevant to claim No |
|------------|---|-----------------------------|
| X | US 6 409 420 B1 (HORTON CRAIG HOWARD ET AL) 25 June 2002 (2002-06-25) column 5, line 36 - column 6, line 3; figures 12-19 | 1-8,18 |
| X | US 6 220 781 B1 (MILLER DOUGLAS) 24 April 2001 (2001-04-24) column 4, line 18 - line 60; figures 1-3 column 5, line 25 - line 34 | 1-5,18 |
| X | US 6 206 608 B1 (BLEVINS JERRY L) 27 March 2001 (2001-03-27) figures | 1,2,4-8, 11-13, 16,17 |
| | ----- -/- | |

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

29 July 2005

Date of mailing of the international search report

21.11.2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | FR 2 820 441 A (SOCIETE D'ETUDES DE REALISATIONS ET D'APPLICATIONS TECHNIQUES SERAT) 9 August 2002 (2002-08-09) figure 4 | 16,17 |
| X | ----- US 6 322 285 B1 (BEN YOSSI) 27 November 2001 (2001-11-27) figure 1 | 1-5,11 |
| X | ----- PATENT ABSTRACTS OF JAPAN vol. 1999, no. 05, 31 May 1999 (1999-05-31) & JP 11 036249 A (JAPAN AIRCRAFT MFG CO LTD), 9 February 1999 (1999-02-09) abstract | 1,3,5,18 |
| X | ----- PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13, 5 February 2001 (2001-02-05) & JP 2000 303418 A (JAPAN AIRCRAFT MFG CO LTD), 31 October 2000 (2000-10-31) abstract; figures 11,12 | 1-5,18 |
| X | ----- CH 687 882 A5 (DORMET DORFLIGER METALLWAREN AG) 14 March 1997 (1997-03-14) figures | 1,34 |
| X | ----- DE 649 349 C (EISENWERK WESERHUEETTE AKT.-GES; HANNS LOESCHE; HANS VEEH) 23 August 1937 (1937-08-23) the whole document | 34 |
| X | ----- US 577 832 A (DONALD C. KILGROW) 7 July 1998 (1998-07-07) figure 7 | 34 |
| X | ----- DE 575 238 C (JOSEF LIPPE) 26 April 1933 (1933-04-26) figure 2 | 34 |
| X | ----- EP 0 933 476 A (GATTEREDER, KARL) 4 August 1999 (1999-08-04) figure 3a | 34 |
| P,X | ----- FR 2 847 280 A (GIAT INDUSTRIES) 21 May 2004 (2004-05-21) page 4, line 16 - line 25; figures 1,2 | 34 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|--------------------------|
| US 6409420 | B1 | 25-06-2002 | NONE |
| US 6220781 | B1 | 24-04-2001 | WO 0236888 A1 10-05-2002 |
| US 6206608 | B1 | 27-03-2001 | NONE |
| FR 2820441 | A | 09-08-2002 | NONE |
| US 6322285 | B1 | 27-11-2001 | NONE |
| JP 11036249 | A | 09-02-1999 | NONE |
| JP 2000303418 | A | 31-10-2000 | JP 3393826 B2 07-04-2003 |
| CH 687882 | A5 | 14-03-1997 | NONE |
| DE 649349 | C | 23-08-1937 | NONE |
| US 577832 | A | | NONE |
| DE 575238 | C | 26-04-1933 | NONE |
| EP 0933476 | A | 04-08-1999 | NONE |
| FR 2847280 | A | 21-05-2004 | NONE |

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

Devices for arresting a wheeled vehicle with rubber tires, comprising elongated flexible member (11) such as strips, mats, cables or chains disposed along the direction of motion and adapted to wrap around the tires using a tire attaching means (14) such as barb, spike or adhesive, the tire attaching means being fixed to the proximal end of the flexible member with respect to the vehicle's motion, and an arresting means (16) such as a rod attached to the distal end of the flexible member and adapted to interfere with the vehicle motion. The spikes may be anchoring in the tire and the cable or chain may be strong enough to tear the tires. The devices may be disposed in a flat housing with movable cover for allowing free passage of the vehicle.